

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 10091 PCT	FOR FURTHER ACTION <small>see Form PCT/ISA/220 as well as, where applicable, item 5 below.</small>	
International application No. PCT/US05/10987	International filing date (<i>day/month/year</i>) 30 March 2005 (30.03.2005)	(Earliest) Priority Date (<i>day/month/year</i>) 31 March 2004 (31.03.2004)
Applicant GOOGLE INC.		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 2 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the Report

a. With regard to the **language**, the international search was carried out on the basis of:

- ☒ the international application in the language in which it was filed.
☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box No. II)

3. ☐ **Unity of invention is lacking** (See Box No. III)

4. With regard to the **title**,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- ☒ the text is approved as submitted by the applicant.
☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. _____
☐ as suggested by the applicant.
☐ as selected by this Authority, because the applicant failed to suggest a figure.
☐ as selected by this Authority, because this figure better characterizes the invention.
- b. ☒ none of the figures is to be published with the abstract.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/10987

A. CLASSIFICATION OF SUBJECT MATTER
IPC: G06F 7/00(2006.01),17/00(2006.01)

USPC: 707/100,102,104.1
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 707/100,102,104.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
east

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
google

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,E	US 20050114487 A (Peng et al.) 26 May 2005, paragraphs 0007-0011	1-30
X,E	US 7,016,919 B (Cotton et al.) 21 March 2006, column 3, lines 25 to col. 5, lines 20.	1-30



Further documents are listed in the continuation of Box C.



See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier application or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	
"P" document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

Date of the actual completion of the international search
04 August 2006 (04.08.2006)

Date of mailing of the international search report

29 MAR 2007

Name and mailing address of the ISA/US
Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 273-3201

Authorized officer
Jeffrey A Gaffin
Telephone No. 703-746-7239

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
SABRA-ANNE TRUESDALE
FENWICK & WEST LLP
801 CALIFORNIA STREET
MOUNTAIN VIEW, CA 94041

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43*bis*.1)

Applicant's or agent's file reference 10091 PCT		Date of mailing (day/month/year) 29 MAR 2007 FOR FURTHER ACTION See paragraph 2 below	
International application No. PCT/US05/10987	International filing date (day/month/year) 30 March 2005 (30.03.2005)	Priority date (day/month/year) 31 March 2004 (31.03.2004)	
International Patent Classification (IPC) or both national classification and IPC IPC: G06F 7/00(2006.01),17/00(2006.01) USPC: 707/100,102,104.1			
Applicant Google Inc.			

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☒ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43*bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1*bis*(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Date of completion of this opinion 20 March 2007 (20.03.2007)	Authorized officer Jeffrey A Gaffin Telephone No. 703-746-7239
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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

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Box No. I Basis of this opinion

1. With regard to the **language**, this opinion has been established on the basis of:

- ☒ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).

2. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

- ☐ a sequence listing
- ☐ table(s) related to the sequence listing

b. format of material

- ☐ on paper
- ☐ in electronic form

c. time of filing/furnishing

- ☐ contained in the international application as filed.
- ☐ filed together with the international application in electronic form.
- ☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
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Box No. IV Lack of unity of invention

1. ☒ In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has, within the applicable time limit:
- ☐ paid additional fees
 - ☐ paid additional fees under protest and, where applicable, the protest fee
 - ☐ paid additional fees under protest but the applicable protest fee was not paid
 - ☒ not paid additional fees
2. ☐ This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3. This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is
- ☐ complied with
 - ☒ not complied with for the following reasons:
See the lack of unity section of the International Search Report(Form PCT/ISA/210)

4. Consequently, this opinion has been established in respect of the following parts of the international application:
- ☒ all parts.
 - ☐ the parts relating to claims Nos. _____

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Box No. V Reasoned statement under Rule 43 *bis*.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims <u>1-30</u>	YES
	Claims <u>NONE</u>	NO
Inventive step (IS)	Claims <u>1-30</u>	YES
	Claims <u>NONE</u>	NO
Industrial applicability (IA)	Claims <u>1-30</u>	YES
	Claims <u>NONE</u>	NO

2. Citations and explanations:

**WRITTEN OPINION OF THE
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

V. 2. Citations and Explanations:

Claims 1-4, 10, 12-16, 22, 24, 25, 27-30 novelty under PCT Article 33(2) as being anticipated by Vleet et al. (US 20050033803).

Regarding claims 1, 13 and 27, Vleet discloses: a method, a computer readable medium containing program code and a system comprising: determining an event schema for an application (i.e. it initially checks its respective cache to determine whether the relevant event data resides therein, and responds to the query of the data is present..., paragraph 0040, and web application 38, fig. 1, Vleet); and determining event data for an event event (i.e. the event data captured by the event history server 32, paragraphs 0027, Vleet) based at least in part on the event schema (i.e. event subjects that indicates the data stored in the value field for each such event subject, paragraph 0045 and table 1, Vleet), wherein the event related to user interactions with an article (as new articles, 0045) associated with the application (actions performed by users during browsing of the particular web site, paragraph 0027, Vleet);

Regarding claims 2, 14 and 28, all the limitations of these claims have been noted in the rejection of claims 1, 13 and 27 above, respectively. In addition, Vleet discloses further comprising transferring the event data to a search application (the web applications interact with the event history server 32 primarily by sending event queries to the event history server 32 in order to retrieved or obtain information about specific events, paragraph 0028, Vleet).

Regarding claims 3, 15 and 29, all the limitations of these claims have been noted in the rejection of claims 1, 13 and 27 above, respectively. In addition, Vleet discloses further comprising storing the event data in the searchable database, wherein the events and articles associated with the application are searchable by a search application (i.e. storing the event data in storage layer server 46, paragraph 0035, 0036, Vleet)

further comprising accessing and providing the event data to a requester by a search application in response to a search query submitted by the requester (i.e. when a server receives an event query from a client, it checks its respective caches to determine whether the relevant event data resides therein, and responds to the query if the data is present... response to the requesting client, paragraph 0040, Vleet).

Regarding claims 4, 16 and 30, all the limitations of these claims have been noted in the rejection of claims 1, 13 and 27 above, respectively. In addition, Vleet discloses wherein determining the event schema comprises one of either receiving, creating, or providing the event schema (receives an event query from a client, responds to the query by generating a response and passes the response to the requesting client, 0040, 0044, 0045, Vleet).

**WRITTEN OPINION OF THE
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Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

Regarding claims 10 and 22, all the limitations of these claims have been noted in the rejection of claims 1 and 13 above, respectively. In addition, Vleet discloses: wherein the event relates to a current user state associated with the application (the server only stores event data associated with its respective range or group of session IDs, for example, when a user starts a new browsing session, threat session is assigned to a particular cache layer server, paragraph 0032, Vleet).

Regarding claims 12, 24 and 25, all the limitations of these claims have been noted in the rejection of claims 1 and 13 above, respectively. In addition, Vleet discloses: wherein the event data is transferred using one or a combination of the following information exchange mechanisms: Extensible Markup Language-Remote Procedure Calling Protocol (XML/RPC), Hypertext Transfer Protocol (HTTP), Simple Object Access Protocol (SOAP), Shared memory, sockets, local or remote procedure calling (0006, Vleet).

Please See Continuation Sheet claim 5-9, 11, 17-21, and 23 the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest.

Claims 5-9, 11, 17-21, and 23, the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest wherein determining the event schema comprises accessing a registered event schema, wherein the registered event schema comprises an event schema indicating information to be captured for a designated application or class of applications on a client device as recited in claims 5, 6, 17 and 18.

The dependent claims 7-9, 11, 19-21 and 23, being further limiting to the independent claims 5, 6, 17 and 18 definite and fully enable by the specification are also allowed.

NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under Article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the *PCT Applicant's Guide*, a publication of WIPO.

In these Notes, "Article," "Rule" and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions, respectively.

INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19

The applicant has, after having received the international search report and the written opinion of the International Searching Authority, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to file amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international publication. Furthermore, it should be emphasized that provisional protection is available in some States only (see *PCT Applicant's Guide*, Volume I/A, Annexes B1 and B2).

The attention of the applicant is drawn to the fact that amendments to the claims under Article 19 are not allowed where the International Searching Authority has declared, under Article 17(2), that no international search report would be established (see *PCT Applicant's Guide*, Volume I/A, paragraph 296).

What parts of the international application may be amended ?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Preliminary Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

When ? Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later. It should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 46.1).

Where not to file the amendments ?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 46.2).

Where a demand for international preliminary examination has been/is filed, see below.

How ? Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or amendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

What documents must/may accompany the amendments ?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended claims. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.